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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/789,478	02/27/2004	Gordon Ma	068736.0236	8436
31625 7	590 12/27/2005		EXAMINER	
BAKER BOTTS L.L.P.		CAO, PHAT X		
PATENT DEPARTMENT 98 SAN JACINTO BLVD., SUITE 1500			ART UNIT	PAPER NUMBER
AUSTIN, TX			2814	

DATE MAILED: 12/27/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

			H
	Application No.	Applicant(s)	
	10/789,478	MA ET AL.	
Office Action Summary	Examiner	Art Unit	
	Phat X. Cao	2814	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	ith the correspondence address	••
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the m earned patent term adjustment. See 37 CFR 1.704(b).	B DATE OF THIS COMMUNIC R 1.136(a). In no event, however, may a r riod will apply and will expire SIX (6) MON atute, cause the application to become Al	CATION. reply be timely filed ITHS from the mailing date of this communic BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 1	2 October 2005.	•	
2a) This action is FINAL . 2b) 2	This action is non-final.		
3) Since this application is in condition for allo	·	•	ts is
closed in accordance with the practice und	er <i>Ex parte Quayle</i> , 1935 C.D). 11, 453 O.G. 213.	
Disposition of Claims			
4) ⊠ Claim(s) <u>1-66</u> is/are pending in the applicate 4a) Of the above claim(s) <u>47-66</u> is/are without 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are rejected. 7) □ Claim(s) is/are objected to. 8) ⊠ Claim(s) <u>1-46</u> are subject to restriction and	drawn from consideration.		
Application Papers			
9) The specification is objected to by the Exam 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the cor 11) The oath or declaration is objected to by the	accepted or b) objected to the drawing(s) be held in abeyar rection is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.1	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International But * See the attached detailed Office action for a	ents have been received. ents have been received in A priority documents have been reau (PCT Rule 17.2(a)).	pplication No received in this National Stage	;
Attachment(s)	A □ 1-4	Summon (PTO 412)	
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB Paper No(s)/Mail Date 	Paper No(Summary (PTO-413) s)/Mail Date nformal Patent Application (PTO-152)	

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DETAILED ACTION

1. Applicant's election with traverse of Group I, claims 1-46 in the reply filed on 10/12/05 is acknowledged. The traversal is on the ground(s) that "Applicant hereby elect with traverse". This is not found persuasive because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement.

The requirement is still deemed proper and is therefore made FINAL.

Election/Restrictions

2. The elected claims 1-46 are directed to the following patentably distinct species of the claimed invention:

<u>Species I (claims 1-23)</u> – a semiconductor device comprising a first via structure extending from the bottom surface of the substrate to the top of the first insulating layer, and a second via structure extending from the top of the first insulating layer to the top of the second insulating layer, as shown in Fig. 1.

Species II (claims 24-46) – a semiconductor device comprising a first via structure extending from the bottom surface of the substrate to the top surface of the substrate, a second via structure extending from the top surface of the substrate to the top of the first insulating layer, and a third via structure extending from the top of the first insulating layer to the top of the second insulating layer, as shown in Fig. 2.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claim is generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

- 3. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).
- 4. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim

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remaining in the application. Any amendment of inventorship must be accompanied by

a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

5. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Phat X. Cao whose telephone number is 571-272-1703.

The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Wael Fahmy can be reached on 571-272-1705. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

PC

December 22, 2005

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